

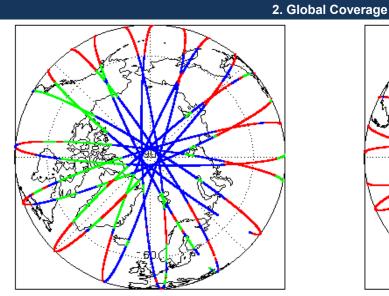
QA4EO Daily Report for OFFLINE data:

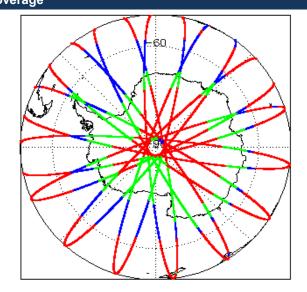
<u>11/12/2020</u>

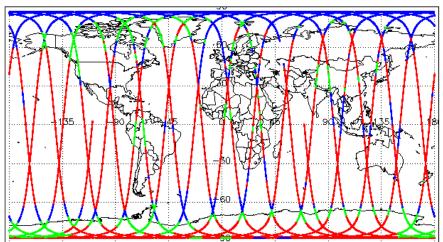
1. Overview

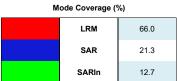
Demont Dreduction Dates	08-Jan-2021	Check	Status		
Report Production Date:	08-Jan-2021	Server check: science-pds.cryosat.esa.int	Nominal		
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal		
Processor Used.	CryoSat ice Processor	Product Software Check	Nominal		
Data Used:		Product Format Check	Nominal		
Data Oseu.	L1B and L2 OFFLINE Data	Product Header Analysis	Nominal		
		Star Tracker Usage Check	Nominal		
		L1B Tracking Flag Check	See Section 4.4		
		L1B Calibration Usage Check	Nominal		
		L1B & L2 Auxiliary Data File Usage Check	Nominal		
		L1B & L2 Auxiliary Correction Error Check	Nominal		
		L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5		
		QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3		

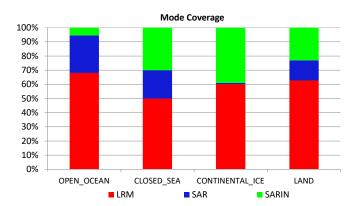
Mission / Instru	lission / Instrument News				
10-Dec-2020	None				
11-Dec-2020	None				
12-Dec-2020	Nothing planned				

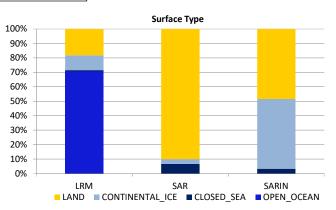












3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:

SIRAL - A

0

4. Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors:

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing. 0

Number of products with errors:

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

122

Number of products with errors:

QFL_SPL_SPL_UN_IB_2001211700342_2001211700342_2001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700342_2001211700342_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700342_2001211700342_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700342_0001211700340_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700340_00011700310_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700340_00011700310_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700340_2001211700310_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700340_2001211700340_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700340_2001211700340_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700340_2001211700340_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211700340_2001211700340_0001 Loss of exho The tracking exho missing for one rimore records CS_OFL_SPL_UN_IB_2001211	Product	Test Failed	Description
CS_OFT_SR_URM_18_2001211701642_2001211701651_0.001 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_200117100561_2001211700561_0001 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001211700561_2001211702250_0001 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001211702250_2001211702250_0001 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001211702570_2001211702278_0001 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_200121170278_20011 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001211702878_20011 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001211702878_20011 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001211703812_2001211703482_20011 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001217103482_2001211703482_20011 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001217103482_2001217103482_20011 Loss of echo The tasking echo is making for one or more records CS_OFT_SR_URM_18_2001217103482_2001217103482_20011 Loss of echo	CS_OFFL_SIR_LRM_1B_20201211T003243_20201211T005942_D001	Loss of echo	The tracking echo is missing for one or more records
C6. OFH_SR_LBM_18_2021211010310_2020121102258_20001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121102254_2020121102259_D001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121102254_2020121102259_D001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121102254_2020121102259_D001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121102254_2020121102259_D001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121102257_201011102350_D001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_202012110237_20011102340_D001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121103112_2001110242_D001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121103112_2001110242_D001 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121103112_200111021102_1000 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121103112_200111021102_1000 Loss of exbo The tracking exbo is missing for one or more records C6. OFF_SR_LBM_18_2020121103112_200111021102_1000 Loss of exbo The tracking exbo is missing for one or more records <t< td=""><td>CS_OFFL_SIR_LRM_1B_20201211T005944_20201211T010213_D001</td><td>Loss of echo</td><td>The tracking echo is missing for one or more records</td></t<>	CS_OFFL_SIR_LRM_1B_20201211T005944_20201211T010213_D001	Loss of echo	The tracking echo is missing for one or more records
CB_OFT_SRL_RM_1B_202012111022156_202012111022550_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_20201211102254_202012111022570_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_20201211102254_202012111022570_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_202012111022571_202012111022570_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_202012111023571_202012111023570_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_202012111023571_202012111023570_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_20201211102357_20201211102458_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_20201211103458_20201211103458_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_20201211103458_2020121103658_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_20201211103458_2020121103658_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_2020121106618_20201211066180_0001 Less of exho The tracking exho is missing for one or more records CB_OFT_SRL_RM_1B_2020121106618_20201211066180_0001 Less of exho The tracking exho is missing for one or	CS_OFFL_SIR_LRM_1B_20201211T010249_20201211T010510_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRA_18_2001211T02254_2001211T02259_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_2002121T02254_2001211T02259_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_2002121T02254_2001211T02259_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T02359_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T02359_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T02539_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T003592_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T005592_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T1005592_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T1005592_D0011T005150_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T1005194_200121T1005180_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T1005194_200121T1005180_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LRA_18_200121T1005182_200121T1005180_D001	CS_OFFL_SIR_LRM_1B_20201211T010510_20201211T010740_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201211702201_20201211702379_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211702204_20201211702373_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211702307_20201211702371_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211702377_20201211702471_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211702471_20201211702472_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211704117_20201211704182_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211704182_D001211704182_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705142_D001211705142_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705182_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705182_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705182_D0011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_2020121170	CS_OFFL_SIR_LRM_1B_20201211T022156_20201211T022552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201211702284_20201211702378_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211702382_20201211702378_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211702381_20201211702401_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211704132_20201211702401_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211704132_202012117024132_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705418_20201211705418_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705418_20201211705418_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705418_20201211705418_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705418_20201211705418_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705418_20201211705418_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_IB_20201211705418_D001 Loss of exho The tracking exho is missing for one or more records CS_OF	CS_OFFL_SIR_LRM_1B_20201211T022554_20201211T022606_D001	Loss of echo	The tracking echo is missing for one or more records
CB_OFFL_SIR_LAM_1B_20201211702332_020012117023916_D001Lass of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211702391_202012117023916_D001Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211702432_20201211702432_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_202012117024132_20201211702432_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_202012117024132_20201211702432_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_202012117024152_202012117051515_D001Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211705053_20201211705155_D001Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211705053_20201211705163_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211706184_20201211706184_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211706184_20201211706184_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211706184_20201211706184_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211706184_20201211706184_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_20201211706184_20201211706184_D0011Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LAM_1B_2020121	CS_OFFL_SIR_LRM_1B_20201211T022610_20201211T022759_D001	Loss of echo	The tracking echo is missing for one or more records
CB_OFFL_SIR_LEM_1B_20201211702381_20201211702401_D001Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211702413_20201211702401_D001Loss of exhoThe tracking exho is missing for one rome recordsCB_OFFL_SIR_LEM_1B_20201211702413_20201211702425_D001Loss of exhoThe tracking exho is missing for one rome recordsCB_OFFL_SIR_LEM_1B_20201211704218_20201211704218_D001Loss of exhoThe tracking exho is missing for one rome recordsCB_OFFL_SIR_LEM_1B_20201211704218_20201211704218_D001Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211705015_20201211705115_D001Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211705018_20201211705118_D001Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211705018_20201211705182_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211705184_20201211705182_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211705184_20201211706180_D001Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211706182_20201211706182_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211707012_20201211706182_D001Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_20201211707071_20201211706743_D001Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LEM_1B_202012117070712_202012117067	CS_OFFL_SIR_LRM_1B_20201211T022954_20201211T023132_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LEM_16_20201211702387_20201211702432_20011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_202012117024132_20201211702432_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_202012117024132_20201211704182_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_202012117054184_20201211705492_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_20201211705532_20201211705516_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_20201211705230_202012117051820_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_202012117051842_202012117051830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_202012117051832_202012117051830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_202012117051832_202012117051830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_202012117051832_202012117051830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_16_202012117076182_202012117075180_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T023524_20201211T023728_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_202012117024132_202012117024233_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117041117_20201211704123_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211705416_20201211705151_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211705053_20201211705151_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211705181_20201211705182_2020111705182_202011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211706182_2020121170518_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121170712_2020121170742_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211707172_2020121170742_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211707712_2020121170742_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211707572_20201211707573_20001Loss of echoThe tracking echo is missi	CS_OFFL_SIR_LRM_1B_20201211T023911_20201211T023918_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201211T041914_20201211T04184_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211T040518_20201211T060595_2020121T1050515_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211T060595_2020121T1050515_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T050595_2020121T050515_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T060184_2020121T060182_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T061842_020121T061842_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T061842_020121T061842_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T061842_020121T061842_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T061842_020121T061842_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T06482_2020121T06482_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T070422_202012T1070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T070422_202012T1070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T070572_202012T107575_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020121T	CS_OFFL_SIR_LRM_1B_20201211T023937_20201211T024001_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201211705714_20201211705715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061814_202012117065155_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061814_202012117061826_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061822_202012117061842_20012117061840_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061822_202012117061840_20012Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061822_202012117061840_20012Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117064151_20201211706480_20012Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117064151_20201211706480_2001211106480_2001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707428_20201211707428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707571_20201211707575_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707574_20201211707573_202012117075730_2001211707573_202012117075730_2001211707573_202012117075730_20012117075730_	CS_OFFL_SIR_LRM_1B_20201211T041117_20201211T041824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202012117050983_020212117051515_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061844_202012117061830_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061834_202012117061830_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061834_202012117061830_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061836_202012117061830_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061826_202012117061926_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061926_202012117064800_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117064827_20201211707428_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117070712_20201211707742_0001211707742_0001211707574_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707579_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707579_20201211707574_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707579_20201211707574_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707574_20201211707574_00011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR	CS_OFFL_SIR_LRM_1B_20201211T042016_20201211T042138_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211705230_202012117061834_202012117061836_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061834_202012117061830_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061836_202012117061830_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061836_202012117061830_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061908_202012117061905_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117061908_202012117064827_202012117064833_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117076192_202012117064827_202012117076482_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707129_20201211707242_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707573_20201211707573_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707573_20201211707573_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707573_20201211707573_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707573_20201211707573_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707574_20201211707574_20201211707574_20201211707574_20201211707574_20201211707574_20201211707574_2020	CS_OFFL_SIR_LRM_1B_20201211T045148_20201211T050942_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_202012117061814_202012117061826_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117061834_202012117061834_202012117061834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117061852_202012117061854_202012117061852_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117061852_202012117061852_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117064152_20201211706452_20201211706452_20201211706452_20201211706452_20201211706452_20201211706452_202012117076422_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117064152_202012117076422_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201211707212_20201211707515_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117075717_202012117075715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117075717_20201211707576_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117075756_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117075780_20012117075780_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117075780_20012117075780_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202012117075780_20012117075780_D001Loss o	CS_OFFL_SIR_LRM_1B_20201211T050953_20201211T051515_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T061832_20201211T061834_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T061834_20201211T061836_20201211T061905_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T061908_20201211T061905_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T061152_20201211T061926_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T061427_20201211T064800_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T06427_20201211T06428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T070242_20201211T072525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T077570_20201211T07575_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07574_20201211T07574_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07574_20201211T07574_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07574_20201211T075780_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075780_20201211T07588_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07589_20201211T07588_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SI	CS_OFFL_SIR_LRM_1B_20201211T052300_20201211T052712_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T06184_20201211T061849_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T061852_20201211T061905_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T061852_20201211T064800_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T06427_20201211T064833_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T076427_20201211T070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T076427_20201211T070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T070722_20201211T072555_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07577_20201211T075715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07577_20201211T075750_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07579_20201211T075780_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07589_20201211T07588_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07589_20201211T07588_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07589_20201211T07589_D00121_Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T	CS_OFFL_SIR_LRM_1B_20201211T061814_20201211T061826_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T061985_20201211T061906_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T064151_20201211T064800_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T064827_20201211T064333_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T070422_20201211T070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T070422_0201211T070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07507_20201211T07545_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07571_20201211T075715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07574_20201211T075756_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075759_20201211T075759_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075759_20201211T075759_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07584_20201211T07584_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T07584_20201211T075958_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T08004_20201211T080047_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20	CS_OFFL_SIR_LRM_1B_20201211T061829_20201211T061830_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_202012117064151_202012117064800_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117070212_202012117070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117070212_0202012117070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707129_020201211707525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707570_202021211707575_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707577_20201211707575_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707574_202012117075756_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707578_20201211707584_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707585_20201211707585_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707584_0201211707595_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707846_202012117075958_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117080001_202012117080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012117080031_202012117080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211	CS_OFFL_SIR_LRM_1B_20201211T061852_20201211T061905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202012117064827_202012117070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707012_202012117070252_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707577_20201211707575_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707577_20201211707575_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707577_20201211707575_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707579_20201211707576_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707579_20201211707580_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707589_20201211707588_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211707580_2020121170598_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211708003_20201211708003_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211708003_20201211708003_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211708032_2002111708023_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211708032_2002111708032_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211708052_2020121	CS_OFFL_SIR_LRM_1B_20201211T061908_20201211T061926_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202012111070212_202012111070428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075707_202012111075715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075707_202012111075715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075717_202012111075730_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075717_202012111075730_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211107574_202012111075769_D0012111075765_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211107583_20201211107584_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075846_202012111075840_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111078946_20201211108003_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211108003_202012111080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211108003_20201211108003_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211108003_20201211108003_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211108003_20201211108003_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_	CS_OFFL_SIR_LRM_1B_20201211T064151_20201211T064800_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202012111071259_202012111075715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075707_202012111075715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075717_202012111075736_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075734_202012111075756_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075735_202012111075783_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211107583_20201211107583_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075846_202012111075958_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111075846_202012111080017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211108003_202012111080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211108003_202012111080034_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211108003_202012111080034_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211108003_2020111108023_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202012111080323_20201211108032_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201	CS_OFFL_SIR_LRM_1B_20201211T064827_20201211T065433_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T075707_20201211T075715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075717_20201211T075730_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075734_20201211T075736_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075759_20201211T075756_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075835_20201211T075835_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075846_20201211T075840_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075846_20201211T075845_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080009_20201211T080017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080021_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080031_020121Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080235_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080325_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080325_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_L	CS_OFFL_SIR_LRM_1B_20201211T070212_20201211T070428_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T075717_20201211T075730_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075734_20201211T075736_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075739_20201211T075833_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075835_20201211T075840_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075846_20201211T075846_20201211T075840_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T08009_20201211T080017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T08001_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080034_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080158_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080235_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS	CS_OFFL_SIR_LRM_1B_20201211T071259_20201211T072525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T075734_20201211T075756_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075739_20201211T075833_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075835_20201211T075840_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075846_20201211T075958_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080009_20201211T080017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080021_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080021_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081282_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1	CS_OFFL_SIR_LRM_1B_20201211T075707_20201211T075715_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T075759_20201211T075833_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075846_20201211T075840_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075846_20201211T075958_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080009_20201211T080017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080021_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080047_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T08023_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T08023_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081628_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081628_20201211T081330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081628_20201211T081330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B	CS_OFFL_SIR_LRM_1B_20201211T075717_20201211T075730_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T075835_20201211T075840_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T075846_20201211T075958_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080009_20201211T080017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080021_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080047_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080047_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080047_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080037_20201211T08023_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T075734_20201211T075756_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T075846_20201211T075958_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080009_20201211T080017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080021_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080047_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080158_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T08558_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T075759_20201211T075833_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T080009_20201211T080017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080021_20201211T080028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080047_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080158_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T08330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T08558_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T075835_20201211T075840_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080047_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080158_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080253_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T083330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T080009_20201211T080017_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T080158_20201211T080234_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080253_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T083330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T080021_20201211T080028_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080253_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T083330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T080031_20201211T080047_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T081828_20201211T083330_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T080158_20201211T080234_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T081828_20201211T083330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T080237_20201211T080253_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T080255_20201211T080302_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201211T081828_20201211T083330_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T090713_20201211T091845_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201211T085508_20201211T090130_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201211T090713_20201211T091845_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20201211T091852 20201211T091948 D001 CS OFFL SIR LRM 1B 20201211T093548 20201211T094034 D001 CS OFFL SIR LRM 1B 20201211T094118 20201211T094148 D001 CS_OFFL_SIR_LRM_1B_20201211T094151_20201211T094201_D001 CS OFFL SIR LRM 1B 20201211T094203 20201211T094608 D001 CS_OFFL_SIR_LRM_1B_20201211T094610_20201211T094744_D001 CS OFFL SIR LRM 1B 20201211T094813 20201211T094931 D001 CS OFFL SIR LRM 1B 20201211T102044 20201211T102200 D001 CS_OFFL_SIR_LRM_1B_20201211T102655 20201211T104458 D001 CS OFFL SIR LRM 1B 20201211T104501 20201211T105322 D001 CS OFFL SIR LRM 1B 20201211T105547 20201211T110109 D001 CS_OFFL_SIR_LRM_1B_20201211T110232_20201211T110323_D001 CS_OFFL_SIR_LRM_1B_20201211T111519_20201211T112142_D001 CS_OFFL_SIR_LRM_1B_20201211T112144_20201211T112146_D001 CS OFFL SIR LRM 1B 20201211T112149 20201211T112208 D001 CS_OFFL_SIR_LRM_1B_20201211T112349_20201211T112442_D001 CS_OFFL_SIR_LRM_1B_20201211T112655_20201211T114711_D001 CS_OFFL_SIR_LRM_1B_20201211T125544_20201211T125901_D001 CS_OFFL_SIR_LRM_1B_20201211T125903_20201211T130512_D001 CS_OFFL_SIR_LRM_1B_20201211T130517_20201211T133056_D001 CS_OFFL_SIR_LRM_1B_20201211T133843_20201211T134212_D001 CS_OFFL_SIR_LRM_1B_20201211T143240_20201211T143445_D001 CS OFFL SIR LRM 1B 20201211T144210 20201211T144231 D001 CS_OFFL_SIR_LRM_1B_20201211T144233_20201211T144312_D001 CS OFFL SIR LRM 1B 20201211T144457 20201211T145345 D001 CS_OFFL_SIR_LRM_1B_20201211T145442_20201211T150239_D001 CS_OFFL_SIR_LRM_1B_20201211T151341_20201211T151907_D001 CS_OFFL_SIR_LRM_1B_20201211T161854_20201211T161939_D001 CS OFFL SIR LRM 1B 20201211T162231 20201211T162804 D001 CS OFFL SIR LRM 1B 20201211T165306 20201211T165805 D001 CS OFFL SIR LRM 1B 20201211T170436 20201211T173753 D001 CS_OFFL_SIR_LRM_1B_20201211T173957_20201211T174018_D001 CS OFFL SIR LRM 1B 20201211T174024 20201211T174034 D001 CS_OFFL_SIR_LRM_1B_20201211T174036_20201211T174050_D001 CS OFFL SIR LRM 1B 20201211T183518 20201211T183711 D001 CS_OFFL_SIR_LRM_1B_20201211T184420_20201211T190131_D001 CS OFFL SIR LRM 1B 20201211T190612 20201211T191434 D001 CS_OFFL_SIR_LRM_1B_20201211T191437_20201211T191439_D001 CS_OFEL_SIR_LRM_1B_20201211T191443_20201211T191451_D001 CS OFFL SIR LRM 1B 20201211T191455 20201211T191457 D001 CS OFFL SIR LRM 1B 20201211T191739 20201211T191741 D001 CS OFFL SIR LRM 1B 20201211T191745 20201211T191748 D001 CS_OFFL_SIR_LRM_1B_20201211T191752_20201211T191753_D001 CS_OFFL_SIR_LRM_1B_20201211T191756_20201211T191756_D001 CS OFFL SIR LRM 1B 20201211T191759 20201211T191809 D001 CS_OFFL_SIR_LRM_1B_20201211T191811_20201211T191816_D001 CS OFFL SIR LRM 1B 20201211T191818 20201211T191819 D001 CS_OFFL_SIR_LRM_1B_20201211T191821_20201211T191827_D001 CS OFFL SIR LRM 1B 20201211T191830 20201211T191854 D001 CS_OFFL_SIR_LRM_1B_20201211T191857_20201211T191914_D001 CS_OFFL_SIR_LRM_1B_20201211T191916_20201211T191917_D001 CS OFFL SIR LRM 1B 20201211T191919 20201211T191938 D001 CS OFFL SIR LRM 1B 20201211T191941 20201211T191946 D001 CS_OFFL_SIR_LRM_1B_20201211T191949_20201211T191951 D001 CS OFFL SIR LRM 1B 20201211T191954 20201211T191957 D001 CS_OFFL_SIR_LRM_1B_20201211T192002_20201211T192036_D001 CS OFFL SIR LRM 1B 20201211T192038 20201211T192039 D001 CS_OFFL_SIR_LRM_1B_20201211T195229_20201211T200710_D001 CS_OFFL_SIR_LRM_1B_20201211T201414_20201211T201624_D001 CS OFFL SIR LRM 1B 20201211T202319 20201211T203836 D001 CS OFFL SIR LRM 1B 20201211T204036 20201211T204956 D001 CS_OFFL_SIR_LRM_1B_20201211T205057_20201211T205137_D001 CS OFFL SIR LRM 1B 20201211T205140 20201211T205143 D001 CS_OFFL_SIR_LRM_1B_20201211T205145_20201211T205453_D001

Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo

The tracking echo is missing for one or more records The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201211T205456_20201211T205535_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T205539_20201211T205626_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T205628_20201211T205632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T205635_20201211T210026_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T211727_20201211T212500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T212503_20201211T212929_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T222634_20201211T222706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T223055_20201211T223130_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T223227_20201211T223307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T223311_20201211T223334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T223336_20201211T223349_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T223351_20201211T223920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T225427_20201211T225959_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T230130_20201211T230452_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T230455_20201211T230502_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T230505_20201211T232747_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201211T233350_20201211T233850_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing.

 Number of products with errors:
 0

4.6 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

4.7 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration. Number of products with errors: 1

Test Failed

CS_OFFL_SIR_LRM_1B_20201211T071259_20201211T072525_D001

Echo error, TRK echo error

Description The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL). Number of products with errors: 0

number of products with circle.

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201210T235203_20201211T001744_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T003243_20201211T005942_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T012528_20201211T015627_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T022156_20201211T022552_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T030227_20201211T033613_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T035300_20201211T040912_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T041117_20201211T041824_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T044121_20201211T045100_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T045148_20201211T050942_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T050953_20201211T051515_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T053154_20201211T055122_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T055143_20201211T060445_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T062307_20201211T063712_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T064151_20201211T064800_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T064827_20201211T065433_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T071259_20201211T072525_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T072639_20201211T074325_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T080542_20201211T081624_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T081828_20201211T083330_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T084938_20201211T085442_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T085508_20201211T090130_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T090713_20201211T091845_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T092112_20201211T092207_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T094203_20201211T094608_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T095748_20201211T101250_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T102655_20201211T104458_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220201211T104501_20201211T105322_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T112149_20201211T112208_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20201211T112655_20201211T114711_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201211T114803_20201211T115202_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T120622_20201211T123302_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201211T130517_20201211T133056_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T134700_20201211T142009_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201211T143240_20201211T143445_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T145442_20201211T150239_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T152543_20201211T154709_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T161135_20201211T161439_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T163110_20201211T164816_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T170436_20201211T173753_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T180248_20201211T182543_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T184420_20201211T190131_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201211T190612_20201211T191434_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T193401_20201211T195015_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201211T195229_20201211T200710_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T202319_20201211T203836_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T204036_20201211T204956_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201211T211727_20201211T212500_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201211T212503_20201211T212929_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T213434_20201211T214845_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T220306_20201211T221945_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T222134_20201211T222407_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201211T223311_20201211T223334_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T223351_20201211T223920_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201211T230130_20201211T230452_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220201211T230505_20201211T232747_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201211T234216_20201212T000717_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors	
SIR_LRM_1B	191	191	191	0	0	
SIR_SAR_1B	147	147	147	0	0	
SIR_SIN_1B	97	97	97	0	0	
SIR_LRM_2	187	187	186	1	0	
SIR_SAR_2	97	145	145	0	0	
SIR_SIN_2	145	97	97	0	0	
SIR_GDR_2	15	15	0	0	15	

6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	-	-
SIR_GDR_2_	15	15	15	15	15	15	15	15			
Test Description Key:											
Abbreviation Test name Details											
MPHDUTNCDF	MPH_De	lta_UT1_NetCDF		Delta_UT1 mismatch							
MPHXPFNCDF	MPH_X_	Position_Float_v2_	NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)							
MPHXVFNCDF	MPH X	Velocity Float v2	NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)							

 MPHYPFNCDF
 MPH_Y_Position_Float_v2_NetCDF
 Y_Position mismatch (DBL float (GDR), rounded to 100)

 MPHYVFNCDF
 MPH_Y_Velocity_Float_v2_NetCDF
 Y_Velocity mismatch (DBL float (GDR), rounded to 1)

 MPHZPFNCDF
 MPH_Z_Position_Float_v2_NetCDF
 Z_Position mismatch (DBL float (GDR), rounded to 100)

 MPHZVFNCDF
 MPH_Z_Velocity_Float_v2_NetCDF
 Z_Position mismatch (DBL float (GDR), rounded to 100)

 MPHZVFNCDF
 MPH_Z_Velocity_Float_v2_NetCDF
 Z_Velocity mismatch (DBL float (GDR), rounded to 1)

STRUCTURESIZEANDFSTRUCTURE_SIZE_AND_READ Under investigation.

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6.2 QCC Warnings

Number of QCC reports with warnings 1 Total number of occurrences of each warning

Number of products with missing QCC reports: